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1 **Security guards: issues and approaches**
Neugent, W.;
Communications Magazine, IEEE , Volume: 26 , Issue: 8 , Aug. 1988
Pages:25 - 29, 43

[Abstract] [PDF Full-Text (572 KB)] **IEEE JNL**

---

2 **Where we stand in multilevel security (MLS): requirements, approaches, issues, and lessons learned**
Neugent, B.;
Computer Security Applications Conference, 1994. Proceedings., 10th Annual , 5-9 Dec. 1994
Pages:304 - 305

[Abstract] [PDF Full-Text (160 KB)] **IEEE CNF**

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Software Agents - Task 2. Author: Florin Dimulescu. **Neugent** - **Neural** Network Agent for Network Management. 1. Purpose of the agent.
www.uta.fi/~florin.dimulescu/SwA/task2.html - 4k - Cached - Similar pages

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domanski.cs.csi.cuny.edu/ ntbenchmarking/DrBCAWorld1forCMG00.ppt - Similar pages

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www.pa.ash.org.au/qsite/conferences/ conf2000/store/**neural**-network-online.doc - Similar pages

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Neugent is built with artificial (as opposed to biological) **neural**-networking technology, which CA acquired through its 1997 purchase of AI Ware, a developer ...
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CA's **Neugent** technology, software agents that apply **neural** networks to address compelling business problems, transforms every aspect of enterprise systems ...
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... the **Neugent** commercials from Computer Associates Intl, Inc., that was made possible by the acquisition of AI Ware. Earl Cox, in his article Fuzzy and **Neural** ...
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Cowans is also a Certified **Neugent** (**Neural** Agent) Architect.
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Self-Aware Services: Using Bayesian (ResearchIndex)
... 1996 1 CA begins shipping 'Neugent' neural network agent eWEEK (context) - Madden -
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e.logistics Magazine | November/December 2000 | Integrated ...
... business intelligence branding. These include CA's Unicenter integration
system and "**Neugent**" neural agents. The new suite offers ...
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... establish their own intranets. CA now offers **Neugent** (**neural** network agent)
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Redmond | News: Computer Associates Buys Sterling Software
The two companies also plan to provide end-to-end e-business solutions through the
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... trend analysis and more sophisticated than rule-based systems, **neural** network technology ....
A **neugent** learns a particular task when given historical data relevant ...
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Seeking An Edge- ADTmag.com
Since then, the project has utilized CA's **Neugent neural** networking
technologies and the e-trust security software, Stewart said.

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Is grid computing finally a reality? | The Register
About the only computer company that still talks about AI today is Computer Associates, which says that its **neural** network agent ('**Neugent**') technology is able ...
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CA extends neural networks to ebusiness - Computing
Computer Associates (CA) has announced that it is **extending its neural** network agent (**Neugent**) technology so that it can be used to predict the behaviour of ...
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Site Analysis Tools: CA Strikes Gold With Neugents
By early next year, CA will introduce the Performance **Neugent**, an add-on to its

Unicenter network management package based on **neural** network technology.
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1 Modeling II: 3D object reconstruction and representation using neural networks
Lim Wen Peng, Siti Mariyam Shamsuddin
June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia**
Full text available: pdf(468.49 KB) Additional Information: full citation, abstract, references

3D object reconstruction is frequent used in various fields such as product design, engineering, medical and artistic applications. Numerous reconstruction techniques and software were introduced and developed. However, the purpose of this paper is to fully integrate an adaptive artificial neural network (ANN) based method in reconstructing and representing 3D objects. This study explores the ability of neural networks in learning through experience when reconstructing an object by estimating it ...

Keywords: affined transformation, back propagation, multilayer feed-forward neural networks, object space, reconstruction, representation, third order polynomial

2 Residual speech signal compression: an experiment in the practical application of neural network technology
Lorien Pratt, Kathleen D. Cebulka, Peter Clitherow
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**
Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

Neural networks are a popular area of research today. However, neural network algorithms have only recently proven valuable to application problems. This paper seeks to aid in the process of transferring neural network technology from research to a development environment by describing our experience in applying this technology. The application studied here is Speaker Identity Verification (SIV), which is the task of verifying a speaker's identity by comparing the speaker's voice ...

3 Real time application of artificial neural network for incipient fault detection of induction machines
Mo-yuen Chow, Sui Oi Yee
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: pdf(751.83 KB) Additional Information: full citation, abstract, references, index terms

This paper describes several artificial neural network architectures for real time application in incipient fault detection of induction machines. The artificial neural networks perform the fault detection in real time, based on direct measurements from the motor, and no rigorous mathematical model of the motor is needed. Different approaches used to develop a reliable fault detector are presented and compared in this paper. The designed networks vary in complexity and accuracy. A high-orde ...

4 Continuous learning: a design methodology for fault-tolerant neural networks

Vincenzo Piuri

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, index terms

Fault tolerance in artificial neural networks is an important feature, in particular when the application is critical or when maintenance is difficult. This paper presents a general design methodology for designing fault-tolerant architectures, starting from the behavioral description of the nominal network and from the nominal algorithm. The behavioral level is considered to detect errors due to hardware faults, while system survival is guaranteed by the reactivation of learning mechanisms ...

5 Neural networks: a new dimension in expert systems applications

Mohammed H. A. Tafti

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**

Full text available: pdf(922.59 KB) Additional Information: full citation, references, index terms

6 2.1: Using neural nets to optimize retrieval in a fuzzy relational database

George Baklarz

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 1**

Full text available: pdf(615.15 KB) Additional Information: full citation, abstract, references

This paper examines the theory behind Fuzzy Sets and Back-Propagation Neural Nets, and how neural nets can be used to replace fuzzy sets and improve the query performance in a Fuzzy Relational Database (FRDB).Neural Nets and Fuzzy Relations are complementary theories that can be used together effectively in a Fuzzy Relational Database. This paper brings the theories of Fuzzy Sets, Neural Nets and Fuzzy Relational Databases together into one system.

7 Poster papers: Extracting decision trees from trained neural networks

Olcay Boz

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(683.99 KB) Additional Information: full citation, abstract, references, index terms

Neural Networks are successful in acquiring hidden knowledge in datasets. Their biggest weakness is that the knowledge they acquire is represented in a form not understandable to humans. Researchers tried to address this problem by extracting rules from trained Neural Networks. Most of the proposed rule extraction methods required specialized type of Neural Networks; some required binary inputs and some were computationally expensive. Craven proposed extracting MofN type Decision Trees from Neur ...

8 Neural networks and artificial intelligence
N. E. Sondak, V. K. Sondak
February 1989 **ACM SIGCSE Bulletin , Proceedings of the twentieth SIGCSE technical symposium on Computer science education**, Volume 21 Issue 1
Full text available: pdf(483.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Neural networks have been called "more important than the atomic bomb" and have received a major funding commitment from DARPA. Nevertheless, it is difficult to find even a mention of neural network concepts and applications in many computer science or information systems curricula. In fact, few computer science or information systems faculty are aware of the profound implications of neurocomputing on the future of their field. This paper contends that neural networks must be a ...

9 Technical Correspondence: A neural net compiler system for hierarchical organization
Rajeev Kumar
February 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 2
Full text available: pdf(954.76 KB) Additional Information: full citation, abstract, references

We present a language framework for handling arbitrarily complex neural computations. The software architecture - which we call an ***A***rtificial ***N***eural Network ***C***ompiler for ***H***ierarchical ***OR***ganization (*ANCHOR*) - facilitates network hierarchy and simpler sub-mappings. We define a **N**et **D**efinition **L**anguage (NDL) which is implemented in object-oriented programming paradigm; a trained network is decompiled bac ...

Keywords: compiler-decompiler, hierarchical networks, neural net definitions, neural programming language, superneuron

10 Neural methods for dynamic branch prediction
Daniel A. Jiménez, Calvin Lin
November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4
Full text available: pdf(540.67 KB) Additional Information: full citation, abstract, references, index terms

This article presents a new and highly accurate method for branch prediction. The key idea is to use one of the simplest possible neural methods, the perceptron, as an alternative to the commonly used two-bit counters. The source of our predictor's accuracy is its ability to use long history lengths, because the hardware resources for our method scale linearly, rather than exponentially, with the history length. We describe two versions of perceptron predictors, and we evaluate these predictors ...

Keywords: Branch prediction, neural networks

11 A multi-neural-network learning for lot sizing and sequencing on a flow-shop
In Lee, Jatinder N. D. Gupta, Amar D. Amar
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**
Full text available: pdf(52.28 KB) Additional Information: full citation, references, index terms

Keywords: flow-shop, lot sizing, neural networks, sequencing

12 An intelligent neural network programming system (NNPS)
Tao Li, XiaoJie Liu

March 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 3

Full text available: pdf(967.78 KB) Additional Information: full citation, abstract, citings, index terms

A neural network programming system based on parallel neural information processing has been presented. With the neural network programming system built upon a 100M local computer network, the system has thus provided users high speed, general purpose and large scale neural network application development platforms.

Keywords: neural networks, programming language, programming system

13 The development of a methodology for the use of neural networks and simulation modeling in system design

Mahdi Nasereddin, Mansooreh Mollaghasemi

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**

Full text available: pdf(63.14 KB) Additional Information: full citation, references, index terms

14 Neural networks and dynamic complex systems

Geoffrey Fox, Wojtek Furmanski, Alex Ho, Jeff Koller, Peter Simic, Isaac Wong

March 1989 **Proceedings of the 22nd annual symposium on Simulation**

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms

We describe the use of neural networks for optimization and inference associated with a variety of complex systems. We show how a string formalism can be used for parallel computer decomposition, message routing and sequential optimizing compilers. We extend these ideas to a general treatment of spatial assessment and distributed artificial intelligence.

15 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-speed networks

Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin

February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

Full text available: pdf(342.90 KB) Additional Information: full citation, references, citings, index terms

16 ANNIE: a simulated neural network for empirical studies and application prototyping

Wendy L. Huxhold, Troy F. Henson, J. Dan Bowman

April 1992 **Proceedings of the 25th annual symposium on Simulation**

Full text available: pdf(690.67 KB) Additional Information: full citation, references, index terms

17 Constructing deterministic finite-state automata in recurrent neural networks

Christian W. Omlin, C. Lee Giles

November 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 6

Full text available: pdf(646.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Recurrent neural networks that are trained to behave like deterministic finite-state automata (DFAs) can show deteriorating performance when tested on long strings. This deteriorating performance can be attributed to the instability of the internal representation of the learned DFA states. The use of a sigmoidel discriminant function together with the

recurrent structure contribute to this instability. We prove that a simple algorithm can construct second-o ...

Keywords: automata, connectionism, knowledge encoding, neural networks, nonlinear dynamics, recurrent neural networks, rules, stability

18 On the optimal capacity of binary neural networks: rigorous combinatorial approaches 
Jeong Han Kim, James R. Roche
July 1995 **Proceedings of the eighth annual conference on Computational learning theory**
Full text available: pdf(805.24 KB) Additional Information: full citation, references, index terms

19 Bounds for the computational power and learning complexity of analog neural nets 
Wolfgang Maass
June 1993 **Proceedings of the twenty-fifth annual ACM symposium on Theory of computing**
Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

20 Neural control of a nonlinear system with inherent time delays 
Edward A. Rietman, Robert C. Frye
May 1991 **Proceedings of the conference on Analysis of neural network applications**
Full text available: pdf(520.18 KB) Additional Information: full citation, references, index terms

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21 Spacial classification and multi-spectral fusion with neural networks
Craig Harston
May 1991 **Proceedings of the conference on Analysis of neural network applications**
Full text available: pdf(546.63 KB) Additional Information: full citation, references, index terms

22 Fast Path-Based Neural Branch Prediction
Daniel A. Jiménez
December 2003 **Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture**
Full text available: pdf(255.21 KB) Publisher Site Additional Information: full citation, abstract, index terms

Microarchitectural prediction based on neural learninghas received increasing attention in recent years. However,neural prediction remains impractical because its superioraccuracy over conventional predictors is not enough to offsetthe cost imposed by its high latency. We present a newneural branch predictor that solves the problem from bothdirections: it is both more accurate and much faster thanprevious neural predictors. Our predictor improves accuracyby combining path and pattern history to ...

23 Special issue on Machine learning methods for text and images: A neural probabilistic language model
Yoshua Bengio, Réjean Ducharme, Pascal Vincent, Christian Janvin
March 2003 **The Journal of Machine Learning Research**, Volume 3
Full text available: pdf(128.42 KB) Additional Information: full citation, abstract, index terms

A goal of statistical language modeling is to learn the joint probability function of sequences of words in a language. This is intrinsically difficult because of the **curse of dimensionality**: a word sequence on which the model will be tested is likely to be different from all the word sequences seen during training. Traditional but very successful approaches based on n-grams obtain generalization by concatenating very short overlapping sequences seen in the training set. We propose to fig ...

24 Mining sales data using a neural network model of market response
Thomas S. Gruca, Bruce R. Klemz, E. Ann Furr Petersen
June 1999 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 1

Full text available: pdf(549.98 KB) Additional Information: full citation, abstract, references

Modeling aggregate market response is a core issue in marketing research. In this research, we extend previous forecasting comparative research by comparing the forecasting accuracy of feed-forward neural network models to the premier market modeling technique, Multiplicative Competitive Interaction (MCI) models. Forecasts are compared in two separate studies: (1) the Information Resources Inc. (IRI) coffee dataset from Marion, IN and (2) the A. C. Nielsen catsup dataset from Sioux Falls, SD. Ou ...

Keywords: market response model, neural networks, sales/market share forecasting

25 Inspection effectiveness in software development: a neural network approach

Tzvi Raz, Alan T. Yaung

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(342.02 KB) Additional Information: full citation, abstract, references, index terms

In this paper we discuss an analysis of inspection effectiveness based on defect escapes. We present a neural network approach to inspection based on the back propagation model for identifying inspections with defect escapes. Our analysis shows several findings that provide new insights on defect escapes and inspection effectiveness. Our approach is quite novel, not only because of its focus on defect escapes, but also because of its application of neural network techniques to the analysis of so ...

26 Neural network simulation on shared-memory vector multiprocessors

C.-J. Wang, C.-H. Wu, S. Sivasindaram

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available: pdf(620.97 KB) Additional Information: full citation, abstract, references, index terms

We simulate three neural networks on a vector multiprocrssor. The training time can be reduced significantly especially when the training data size is large. These three neural networks are: 1) the feedforward network, 2) the recurrent network and 3) the Hopfield network. The training algorithms are programmed in such a way to best utilize 1) the inherent parallelism in neural computing, and 2) the vector and concurrent operations available on the parallel machine. To prove the correctness ...

27 A neural network design for circuit partitioning

J.-S. Yih, P. Mazumder

June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**

Full text available: pdf(737.40 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a neural network model for circuit bipartitioning. The massive parallelism of neural nets has been successfully exploited to balance the partitions of a circuit and to reduce the external wiring between the partitions. The experimental results obtained by neural nets are found to be comparable with that achieved by Fiduccia and Mattheyses algorithm.

28 A first undergraduate course in neural networks

Adel M. Abunawass, Omar Bukhres, Theresia G. Fisher, Kenneth Magel

February 1990 **ACM SIGCSE Bulletin , Proceedings of the twenty-first SIGCSE technical symposium on Computer science education**, Volume 22 Issue 1

Full text available: pdf(539.33 KB) Additional Information: full citation, references, index terms

29 NeuroAnimator: fast neural network emulation and control of physics-based models
Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton
July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(28.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: backpropagation, dynamical systems, learning, motion control, neural networks, physics-based animation, simulation

30 On a learnability question associated to neural networks with continuous activations (extended abstract)
Bhaskar DasGupta, Hava T. Siegelmann, Eduardo Sontag
July 1994 **Proceedings of the seventh annual conference on Computational learning theory**
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

This paper deals with learnability of concept classes defined by neural networks, showing the hardness of PAC-learning (in the complexity, not merely information-theoretic sense) for networks with a particular class of activation. The obstruction lies not with the VC dimension, which is known to grow slowly; instead, the result follows the fact that the loading problem is NP-complete. (The complexity scales badly with input dimension; the loading problem is polynomial-time ...

31 Time series forecasting using neural networks
Thomas Kolarik, Gottfried Rudorfer
August 1994 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL : the language and its applications: the language and its applications**, Volume 25 Issue 1
Full text available: pdf(657.67 KB) Additional Information: full citation, abstract, references, citings, index terms

Artificial neural networks are suitable for many tasks in pattern recognition and machine learning. In this paper we present an APL system for forecasting univariate time series with artificial neural networks. Unlike conventional techniques for time series analysis, an artificial neural network needs little information about the time series data and can be applied to a broad range of problems. However, the problem of network "tuning" remains: parameters of the backpropagation a ...

32 A cascading neural-net for traffic management of computer networks
Jiann-Liang Chen
March 1993 **Proceedings of the 1993 ACM conference on Computer science**
Full text available: pdf(707.41 KB) Additional Information: full citation, abstract, references, index terms

An effective method to execute the traffic management of computer networks using a cascading neural-net (CNN) is proposed in this paper. The proposed CNN consists of a two-level neural model. The lower level, the back-propagation neural model, will detect whether the tested network is overloaded or not. The higher level, the counter-propagation neural model, will classify and exclude the status of congestion derived from the overload of tested network. Therefore, if the diagnostic e ...

33 The principled design of large-scale recursive neural network architectures--dag-rnns and the protein structure prediction problem
Pierre Baldi, Gianluca Pollastri

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(231.40 KB) Additional Information: full citation, abstract, references, index terms

We describe a general methodology for the design of large-scale recursive neural network architectures (DAG-RNNs) which comprises three fundamental steps: (1) representation of a given domain using suitable directed acyclic graphs (DAGs) to connect visible and hidden node variables; (2) parameterization of the relationship between each variable and its parent variables by feedforward neural networks; and (3) application of weight-sharing within appropriate subsets of DAG connections to capture s ...

34 Knowledge discovery based on neural networks

LiMin Fu

November 1999 **Communications of the ACM**, Volume 42 Issue 11

Full text available: pdf(89.84 KB) html(20.16 KB) Additional Information: full citation, references, index terms

35 Protein classification using a neural network database system

Cathy H. Wu, Adisorn Epidemiology, Tzx-Chung Chang

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: pdf(1.02 MB) Additional Information: full citation, references, citings, index terms

36 A discrete-time neural network multitarget tracking data association algorithm

Oluseyi Olurotimi

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: pdf(862.55 KB) Additional Information: full citation, references, index terms

37 Position papers: Artificial neural networks: a science in trouble

Asim Roy

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Full text available: pdf(646.93 KB) Additional Information: full citation, abstract, references

This article points out some very serious misconceptions about the brain in connectionism and artificial neural networks. Some of the connectionist ideas have been shown to have logical flaws, while others are inconsistent with some commonly observed human learning processes and behavior. For example, the connectionist ideas have absolutely no provision for learning from stored information, something that humans do all the time. The article also argues that there is definitely a need for some ne ...

Keywords: artificial neural networks, automated learning, brain-like learning, connectionism, data mining, intelligent systems

38 Integrating neural networks with special purpose simulation

Dany Hajjar, Simaan AbouRizk, Kevin Mather

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(128.17 KB) Additional Information: full citation, references, index terms

39

Multiprocessor simulation of neural networks with NERV

R. Manner, R. Horner, R. Hauser, A. Genthner

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, index terms

A general-purpose simulation system for neural networks is computationally very demanding. This paper presents some estimations of the computing power required, the necessary interconnection bandwidth, and the requisite memory size. Next, the hardware architecture of the NERV multiprocessor system is derived that fulfills these requirements. Up to 320 processors 68020 are used in a single VME crate together with a Macintosh II as a host computer. This set-up provides a computing power of 13 ...

40 Critical issues in mapping neural networks on message-passing multicomputers

J. Ghosh, K. Hwang

May 1988 **ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture**, Volume 16 Issue 2

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, index terms

Connectionist models such as artificial neural systems, offer an intrinsically concurrent computational paradigm. We investigate the architectural requirements for efficiently simulating large neural networks on a multicomputer system with thousands of fine-grained processors and distributed memory. First, models for characterizing the structure of a neural network and the function of individual cells are developed. These models provide guidelines for efficiently mapping the network onto mu ...

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41 Pattern-based fault diagnosis using neural networks

W. E. Dietz, E. L. Kiech, M. Ali

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

The detection and diagnosis of faults in real time are active areas of research in knowledge-based expert systems. Several methods of diagnosis have been applied to a variety of physical systems. Rule-based approaches have been applied successfully to some domains. However, encoding knowledge in rule bases raises many difficult knowledge acquisition issues; in addition, rule-based systems are often too slow to be effectively applied in a real-time environment. More advanced diagnostic syste ...

42 Opening the neural network black box: an algorithm for extracting rules from function approximating artificial neural networks

Rudy Setiono, Wee Kheng Leow, James Y. L. Thong

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available: pdf(206.40 KB) Additional Information: full citation, references, index terms

Keywords: decision rules, knowledge acquisition, neural networks

43 Neural networks for molecular sequence database management

Cathy H. Wu, Jerry W. McLarty, George M. Whitson

April 1999 **Proceedings of the 19th annual conference on Computer Science**

Full text available: pdf(686.49 KB) Additional Information: full citation, references, citings

44 Learning of depth two neural networks with constant fan-in at the hidden nodes (extended abstract)

Peter Auer, Stephen Kwek, Wolfgang Maass, Manfred K. Warmuth

January 1996 **Proceedings of the ninth annual conference on Computational learning**

theory
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

45 MONSTER—the ghost in the connection machine: modularity of neural systems in theoretical evolutionary research
Nigel Snoad, Terry Bossomaier
December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: html(42.44 KB) Additional Information: full citation, references, index terms

46 On optimization of polling policy represented by neural network
Yutaka Matsumoto
October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications**, Volume 24 Issue 4
Full text available: pdf(843.27 KB) Additional Information: full citation, abstract, references, index terms

This paper deals with the problem of scheduling a server in a polling system with multiple queues and complete information. We represent the polling policy by a neural network; namely, given the number of waiting customers in each queue, the server determines next queue he should visit according to the output of the neural network. By using the simulated annealing method, we improve the neural polling policy in such a way that the mean delay of customers is minimized. Numer ...

47 Identification of parallelism in neural networks by simulation with language J.
Alexei N. Skurihin, Alvin J. Surkan
September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 24 Issue 1
Full text available: pdf(588.94 KB) Additional Information: full citation, abstract, references, citings, index terms

Neural networks, trained by backpropagation, are designed and described in the language **J,** an ***APL*** derivative with powerful function encapsulation features. Both the languages **J** [4,6,7] and ***APL*** [5] help to identify and isolate the parallelism that is inherent in network training algorithms. Non-critical details of data input and derived output processes are de-emphasized by relegating those functions to callable stand-alone modules. Such input and output ...

48 Industry track papers: Mining heterogeneous gene expression data with time lagged recurrent neural networks
Yulan Liang, Arpad Kelemen
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

Heterogeneous types of gene expressions may provide a better insight into the biological role of gene interaction with the environment, disease development and drug effect at the molecular level. In this paper for both exploring and prediction purposes a Time Lagged Recurrent Neural Network with trajectory learning is proposed for identifying and classifying the gene functional patterns from the heterogeneous nonlinear time series microarray experiments. The proposed procedures identify gene fun ...

Keywords: backpropagation through time, gene expression, heterogeneous, time lagged

neural network, trajectory learning

49 The exploration of legal text corpora with hierarchical neural networks: a guided tour in public international law
Dieter Merkl, Erich Schweighofer
June 1997 **Proceedings of the sixth international conference on Artificial intelligence and law**
Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

50 Classification artificial neural systems for genome research
C. H. Wu, G. M. Whitson, C.-T. Hsiao, C.-F. Huang
December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**
Full text available: pdf(601.08 KB) Additional Information: full citation, references, index terms

51 A simulation of final stop consonants in speech perception using the bicameral neural network model
Michael C. Stinson, Dan Foster
April 1990 **ACM SIGSIM Simulation Digest , Proceedings of the 23rd annual symposium on Simulation**, Volume 20 Issue 4
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, index terms

This paper demonstrates the integration of contextual information in a neural network for speech perception. Neural networks have been unable to integrate such information successfully because they cannot implement conditional rule structures. The Bicameral neural network employs an asynchronous controller which allows conditional rules to choose neurons for update rather than updating them randomly. The Bicameral model is applied to the perception of word-final plosives, an ongoing problem ...

52 Full papers: Toward V&V of neural network based controllers
Johann Schumann, Stacy Nelson
November 2002 **Proceedings of the first workshop on Self-healing systems**
Full text available: pdf(263.46 KB) Additional Information: full citation, abstract, references

Online adaptation is a powerful means to handle unexpected slow or catastrophic changes of the system's behavior (e.g., a stuck or broken rudder of an aircraft). Therefore, adaptation is one way for realizing a self-healing system. Substantial research and development has been made to use neural networks (NN) for such tasks (e.g., integrated in various unmanned helicopters and test-flown on a modified F-15 aircraft). Despite the advantages of adaptive neural network based systems, the lack of me ...

53 Neural network approach to zero-one optimal covering problem
A. R. Khan, A. R. Marudarajan, C. A. Goben
April 1991 **Proceedings of the 24th annual symposium on Simulation**
Full text available: pdf(746.09 KB) Additional Information: full citation, references, index terms

54 Parallel construction of minimal perfect hashing functions with neural networks
Jin Wang
March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Full text available: pdf(672.98 KB) Additional Information: full citation, abstract, references, index terms

The seeking of minimal perfect hashing functions (MPHF) has a long history and conventional construction methods are sequential algorithms. To parallelize the MPHF construction, a new method using neural networks is proposed in this paper. It constructs a MPHF by training a massive array of neural nets, and the training tasks can be carried out simultaneously. As the total MPHF construction time is proportional to the key set size, the new method can be applied to build MPHFs for large key ...

55 Application of the recurrent neural network to the problem of language acquisition
Ryotaro Kamimura
May 1991 **Proceedings of the conference on Analysis of neural network applications**
Full text available: pdf(864.25 KB) Additional Information: full citation, references, index terms

56 Neural network-based decision support for incomplete database systems: Knowledge acquisition and performance analysis
B. Jin, A. R. Hurson, L. L. Miller
May 1991 **Proceedings of the conference on Analysis of neural network applications**
Full text available: pdf(931.18 KB) Additional Information: full citation, references, index terms

57 High speed neural network chip for trigger purposes in high energy physics
W. Eppler, T. Fischer, H. Gemmeke, A. Menchikov
February 1998 **Proceedings of the conference on Design, automation and test in Europe**
Full text available: pdf(116.42 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

A novel neural chip SAND (Simple Applicable Neural Device) is described. It is highly usable for hardware triggers in particle physics. The chip is optimized for a high input data rate (50 MHz, 16 bit data) at a very low cost basis. The performance of a single SAND chip is 200 MOPS due to four parallel 16 bit multipliers and 40 bit adders working in one clock cycle. The chip is able to implement feedforward neural networks with a maximum of 512 input neurons and three hidden layers. Kohonen feat ...

Keywords: VME board with neural network chip SAND, Hardware accelerator for neural networks, High energy physics : trigger, on- and off-line analysis

58 The split-up system: integrating neural networks and rule-based reasoning in the legal domain
John Zeleznikow, Andrew Stranieri
May 1995 **Proceedings of the fifth international conference on Artificial intelligence and law**
Full text available: pdf(757.34 KB) Additional Information: full citation, references, citings, index terms

59 Combining artificial neural networks and statistics for stock-market forecasting
Shaun-Inn Wu, Ruey-Pyng Lu
March 1993 **Proceedings of the 1993 ACM conference on Computer science**
Full text available: pdf(969.65 KB) Additional Information: full citation, abstract, references, citings, index terms

We have developed a stock-market forecasting system based on artificial neural networks. The system has been trained with the Standard & Poor 500 composite indexes of past twenty years. Meanwhile, the system produces the forecasts and adjusts itself by comparing its forecasts with the actual indexes. Since most of stock-market forecasting systems are based on some kind of statistical models, we have also implemented a statistical system based on Box-Jenkins ARIMA(p,d,q) model of ...

60 Article abstracts with full text online: Object oriented software quality prediction using general regression neural networks

S. Kanmani, V. Rhymend Uthariaraj, V. Sankaranarayanan, P. Thambidurai

September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Full text available: pdf(273.24 KB) Additional Information: full citation, abstract, references

This paper discusses the application of General Regression Neural Network (GRNN) for predicting the software quality attribute -- fault ratio. This study is carried out using static Object-Oriented (OO) measures (64 in total) as the independent variables and fault ratio as the dependent variable. Software metrics used include those concerning inheritance, size, cohesion and coupling. Prediction models are designed using 15 possible combinations of the four categories of the measures. We also tes ...

Keywords: metrics, neural network, object oriented, software quality

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